SEQUENCE LISTING

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Giladi, Eliezer
Melamed, Eldad
Brenneman, Douglas
Ramot at Tel-Aviv University, Ltd.
The Government of the United States of America
as represented by The Secretary of the
Department of Health and Human Services

<120> Methods of Treating and/or Preventing Autoimmune Diseases

<130> 019856-000210US

<140> US 10/748,765
<141> 2003-12-29

<150> US 60/437,650
<151> 2003-01-02

<160> 23

<170> PatentIn Ver. 2.1

<210> 1
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:activity dependent neurotrophic factor I (ADNF I) active core site (SAL, ADNF-9)

<400> 1
Ser Ala Leu Leu Arg Ser Ile Pro Ala
1 5

<210> 2
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:activity dependent neurotrophic factor III (ADNF III) active core site (NAP)

<400> 2
Asn Ala Pro Val Ser Ile Pro Gln
1 5

<210> 3
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF I
polypeptide

<400> 3
Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
1 5 10

<210> 4
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF I
polypeptide

<400> 4
Val Glu Glu Gly Ile Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser
1 5 10 15

Ile Pro Ala

<210> 5
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF I
polypeptide

<400> 5
Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
1 5 10

<210> 6
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF I
polypeptide

<400> 6
Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
1 5 10

<210> 7
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF I
polypeptide

<400> 7
Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
1 5 10

<210> 8
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF I
polypeptide

<400> 8
Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
1 5 10

<210> 9
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF III
polypeptide

<400> 9
Gly Gly Asn Ala Pro Val Ser Ile Pro Gln
1 5 10

<210> 10
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF III
polypeptide

<400> 10
Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln Gln Ser
1 5 10

<210> 11
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF III
polypeptide

<400> 11
Leu Gly Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln Gln Ser
1 5 10 15

<210> 12
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF III
polypeptide

<400> 12
Ser Val Arg Leu Gly Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln
1 5 10 15

Gln Ser

<210> 13
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF I
polypeptide

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<222> (1)..(40)
<223> Xaa = any naturally occurring amino acid or known
analogue of a natural amino acid, Xaa at positions
1-40 may be present or absent

<220>
<221> MOD_RES
<222> (50)..(89)
<223> Xaa = any naturally occurring amino acid or known
analogue of a natural amino acid, Xaa at positions
50-89 may be present or absent

<400> 13
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ala Leu Leu Arg Ser Ile Pro
35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85

<210> 14
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ADNF III
polypeptide

<220>
<221> MOD_RES
<222> (1)..(40)
<223> Xaa = any naturally occurring amino acid or known
analogue of a natural amino acid, Xaa at positions
1-40 may be present or absent

<220>
<221> MOD_RES
<222> (49)..(88)
<223> Xaa = any naturally occurring amino acid or known
analogue of a natural amino acid, Xaa at positions
49-88 may be present or absent

<400> 14
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Ala Pro Val Ser Ile Pro Gln
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85

<210> 15
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:1-R or 2-R
within the formula for ADNF I polypeptide

<400> 15
Val Leu Gly Gly Gly
1 5

<210> 16
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:2-R within the formula for ADNF I polypeptide

<400> 16
Val Leu Gly Gly
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<210> 17
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:2-R within the formula for ADNF I polypeptide

<400> 17
Val Leu Gly Gly Val
1 5

<210> 18
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:2-R within the formula for ADNF I polypeptide

<400> 18
Gly Val Leu Gly Gly
1 5

<210> 19
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:3-R or 4-R within the formula for ADNF III polypeptide

<400> 19
Leu Gly Leu Gly Gly
1 5

<210> 20
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:4-R within the formula for ADNF III polypeptide

<400> 20
Leu Gly Leu Gly
1

<210> 21
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:4-R within the formula for ADNF III polypeptide

<400> 21
Leu Gly Leu Gly Leu
1 5

<210> 22
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:1-R within the formula for ADNF I polypeptide

<400> 22
Val Glu Glu Gly Ile Val Leu Gly Gly Gly
1 5 10

<210> 23
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:3-R within the formula for ADNF III polypeptide

<400> 23
Ser Val Arg Leu Gly Leu Gly Gly
1 5